

Limerick 2

4Q/2000 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



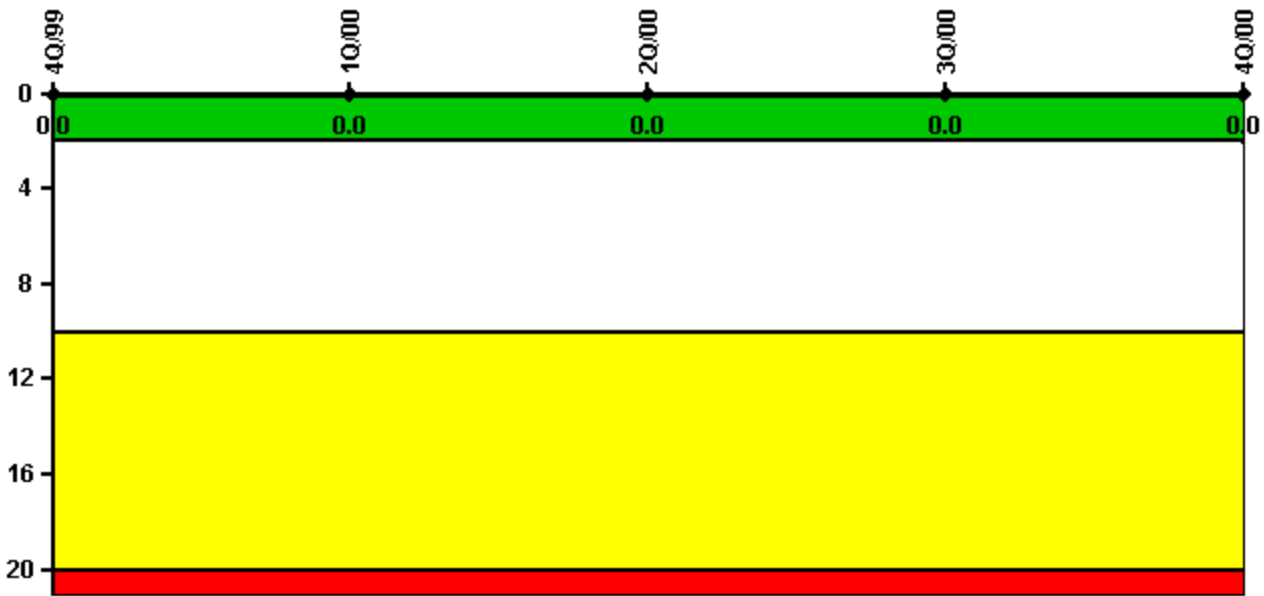
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

| Unplanned Scrams per 7000 Critical Hrs | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|--|------------|------------|------------|------------|------------|
| Unplanned scrams | 1.0 | 1.0 | 0 | 0 | 0 |
| Critical hours | 2186.2 | 2120.6 | 2183.0 | 2208.0 | 2209.0 |
| | | | | | |
| Indicator value | 0.9 | 1.8 | 1.6 | 1.6 | 0.8 |

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



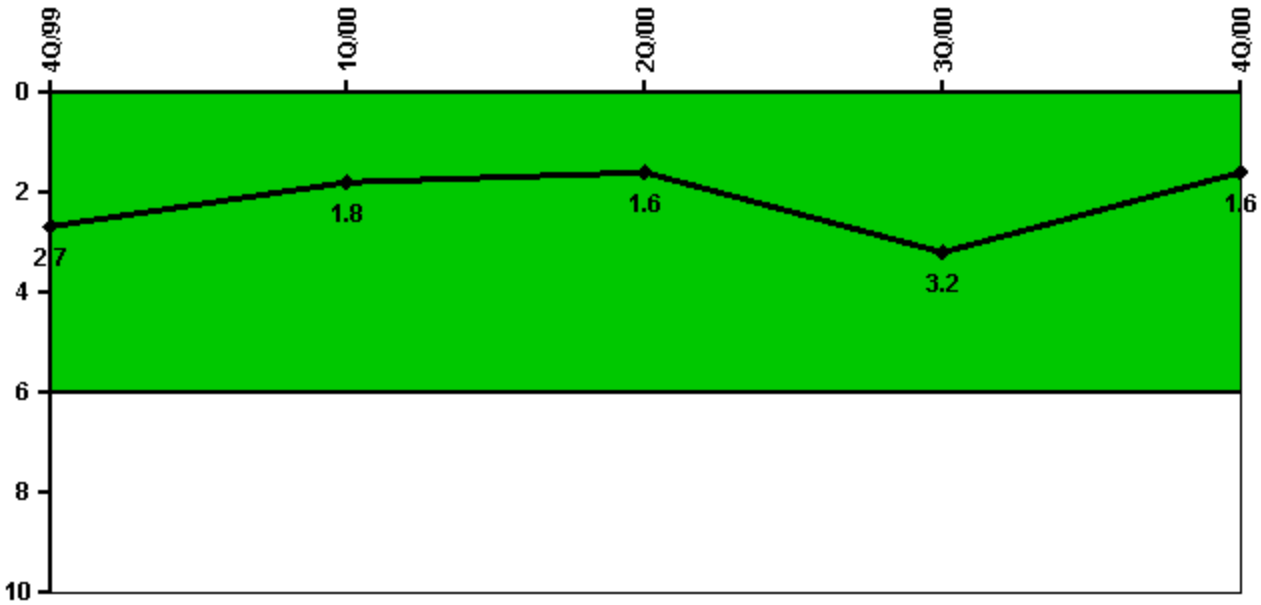
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

| Scrams with Loss of Normal Heat Removal | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|---|-------|-------|-------|-------|-------|
| Scrams | 0 | 0 | 0 | 0 | 0 |
| Indicator value | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

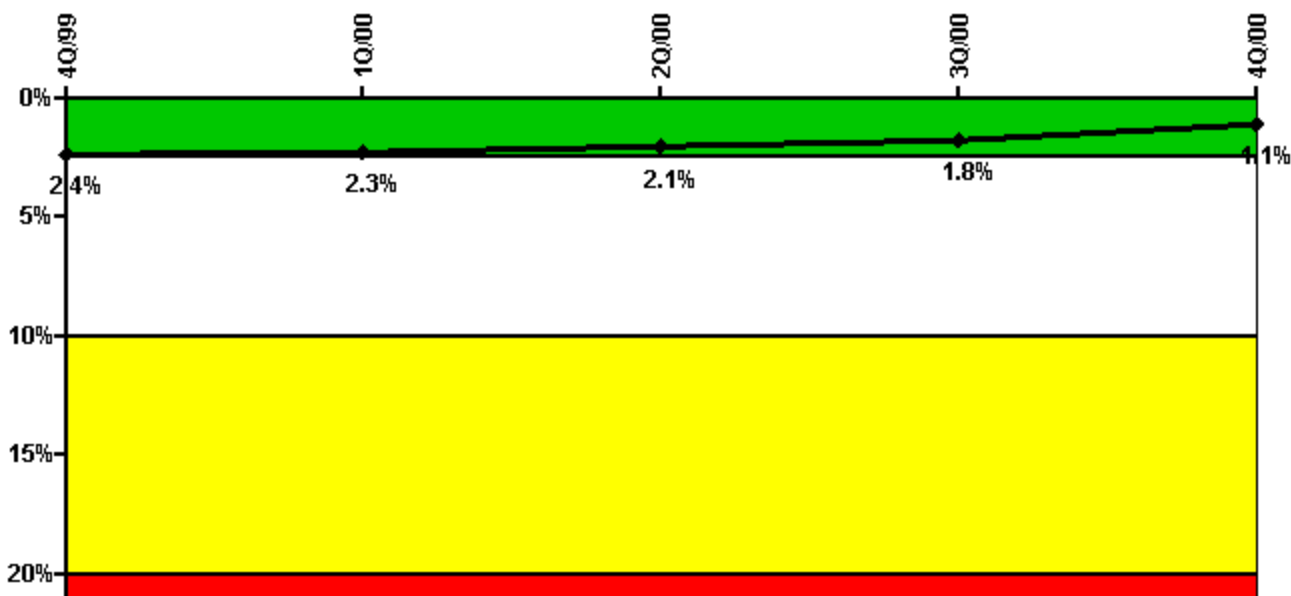
Notes

| Unplanned Power Changes per 7000 Critical Hrs | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|---|------------|------------|------------|------------|------------|
| Unplanned power changes | 2.0 | 0 | 0 | 2.0 | 0 |
| Critical hours | 2186.2 | 2120.6 | 2183.0 | 2208.0 | 2209.0 |
| | | | | | |
| Indicator value | 2.7 | 1.8 | 1.6 | 3.2 | 1.6 |

Licensee Comments:

3Q/00: 7-8-00 #4 turbine control valve went closed (failed solenoid). 9-9-00 2A recirc pump trip (blown fuse).

Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

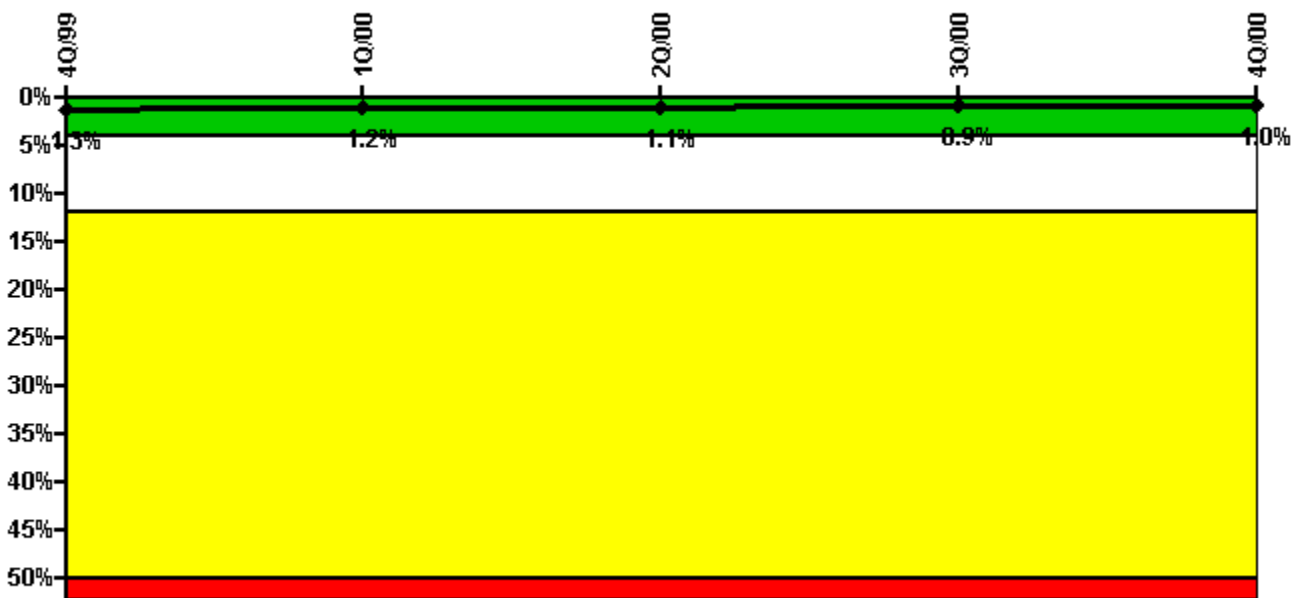
Notes

| Safety System Unavailability, Emergency AC Power, >2EDG | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|---|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | |
| Planned unavailable hours | 0 | 3.27 | 0 | 0 | 0.25 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 2.80 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 |
| Train 2 | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 0 | 9.98 |
| Unplanned unavailable hours | 0 | 18.51 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 |
| Train 3 | | | | | |
| Planned unavailable hours | 0 | 0 | 0 | 7.00 | 0.43 |
| Unplanned unavailable hours | 0 | 0.07 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 |
| Train 4 | | | | | |
| Planned unavailable hours | 208.76 | 0.32 | 0 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0.07 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 |
| | | | | | |
| Indicator value | 2.4% | 2.3% | 2.1% | 1.8% | 1.1% |

Licensee Comments:

4Q/98: Correct typo for 4th quarter 1998. Revise the Unit 2 Train 1, Hours Required, from the incorrect value of '2209' to the correct value of '2208'

Safety System Unavailability, High Pressure Injection System (HPCI)



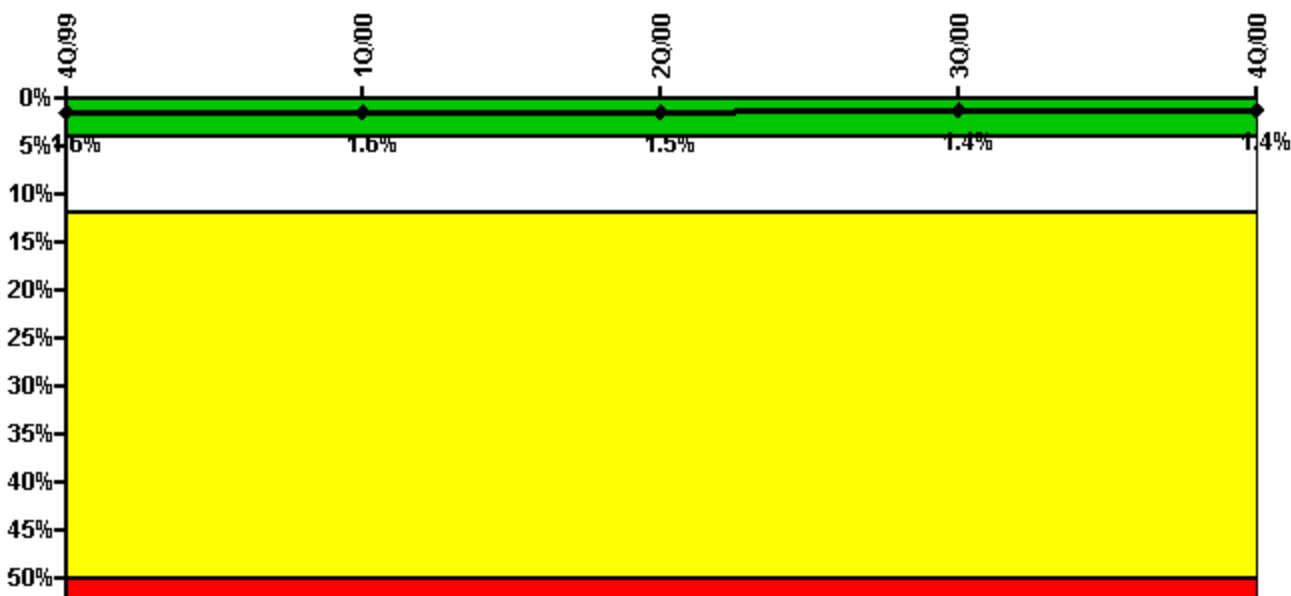
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

| Safety System Unavailability, High Pressure Injection System (HPCI) | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|---|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | |
| Planned unavailable hours | 0 | 0 | 8.60 | 1.40 | 1.70 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 12.70 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2186.20 | 2120.60 | 2183.00 | 2208.00 | 2209.00 |
| | | | | | |
| Indicator value | 1.3% | 1.2% | 1.1% | 0.9% | 1.0% |

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)



Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

| Safety System Unavailability, Heat Removal System (RCIC) | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|--|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | |
| Planned unavailable hours | 48.72 | 1.80 | 2.00 | 16.20 | 6.70 |
| Unplanned unavailable hours | 33.58 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2186.20 | 2120.60 | 2183.00 | 2208.00 | 2209.00 |
| | | | | | |
| Indicator value | 1.6% | 1.6% | 1.5% | 1.4% | 1.4% |

Licensee Comments:

3Q/00: Planned unavailability data was revised historically from Jan 98 to present to account for (additional) unavailability which originally was not accounted for.

Safety System Unavailability, Residual Heat Removal System



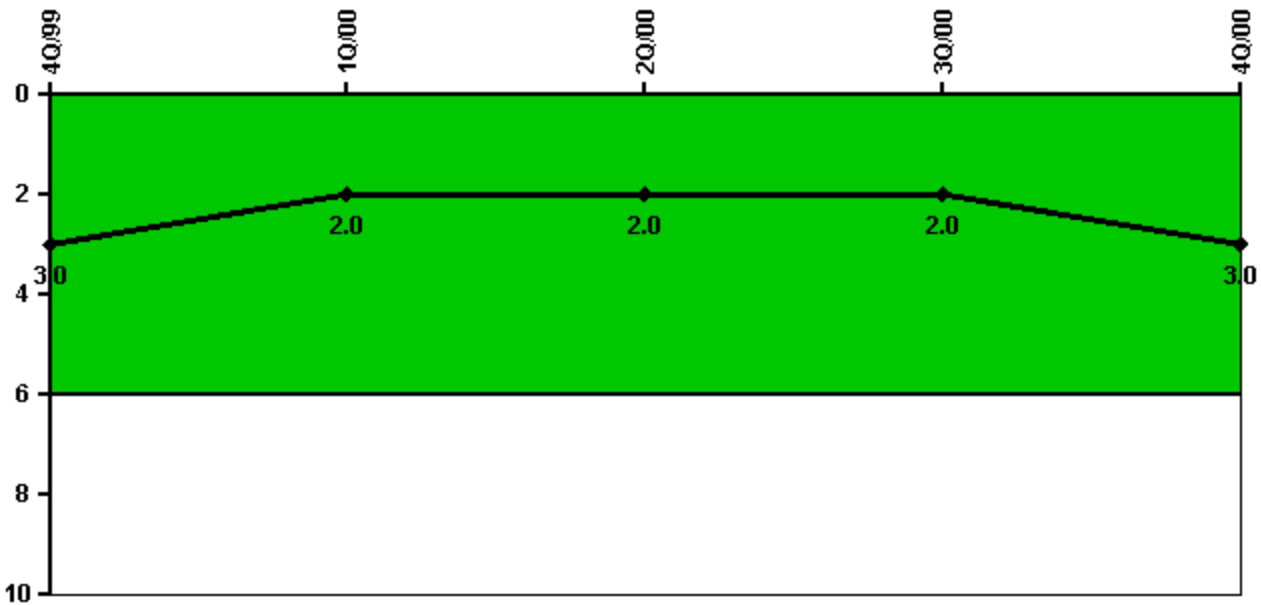
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

| Safety System Unavailability, Residual Heat Removal System | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|--|-------------|-------------|-------------|-------------|-------------|
| Train 1 | | | | | |
| Planned unavailable hours | 0 | 12.27 | 0 | 0 | 34.62 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 |
| Train 2 | | | | | |
| Planned unavailable hours | 18.50 | 2.72 | 21.22 | 0 | 0 |
| Unplanned unavailable hours | 0 | 0 | 0 | 0 | 0 |
| Fault exposure hours | 0 | 0 | 0 | 0 | 0 |
| Effective Reset hours | 0 | 0 | 0 | 0 | 0 |
| Required hours | 2209.00 | 2184.00 | 2183.00 | 2208.00 | 2209.00 |
| | | | | | |
| Indicator value | 0.6% | 0.6% | 0.6% | 0.5% | 0.5% |

Licensee Comments: none

Safety System Functional Failures (BWR)



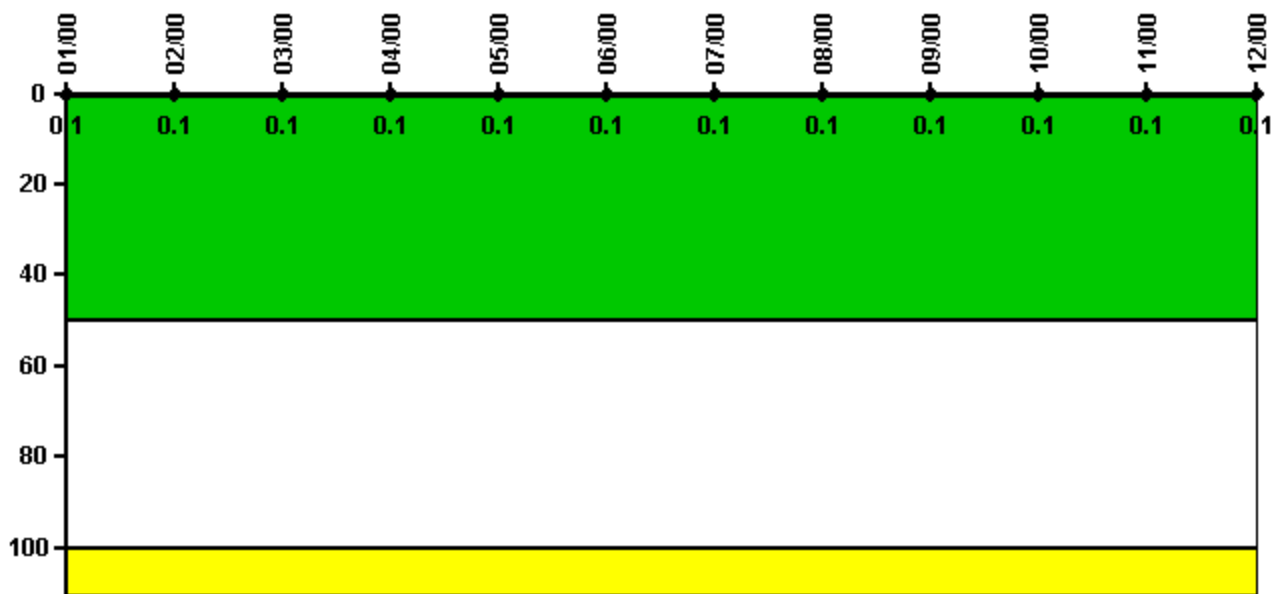
Thresholds: White > 6.0

Notes

| Safety System Functional Failures (BWR) | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|---|-------|-------|-------|-------|-------|
| Safety System Functional Failures | 0 | 1 | 0 | 1 | 1 |
| | | | | | |
| Indicator value | 3 | 2 | 2 | 2 | 3 |

Licensee Comments: none

Reactor Coolant System Activity



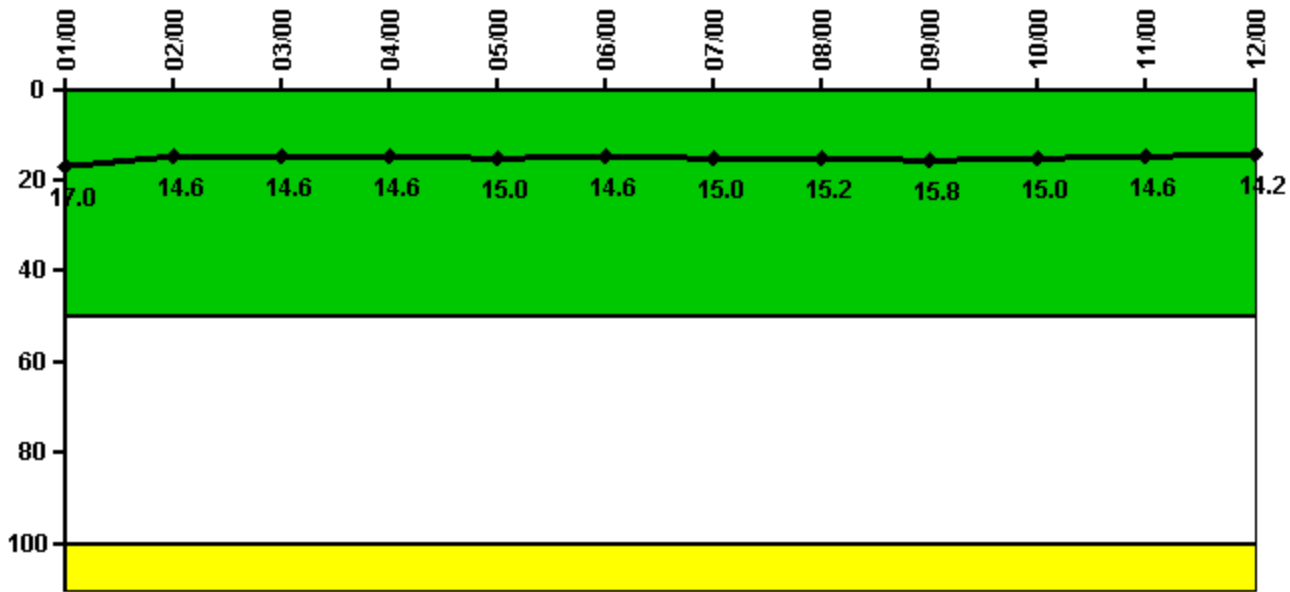
Thresholds: White > 50.0 Yellow > 100.0

Notes

| Reactor Coolant System Activity | 1/00 | 2/00 | 3/00 | 4/00 | 5/00 | 6/00 | 7/00 | 8/00 | 9/00 | 10/00 | 11/00 | 12/00 |
|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Maximum activity | 0.000130 | 0.000139 | 0.000146 | 0.000146 | 0.000147 | 0.000137 | 0.000134 | 0.000143 | 0.000157 | 0.000146 | 0.000162 | 0.000157 |
| Technical specification limit | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Indicator value | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |

Licensee Comments: none

Reactor Coolant System Leakage



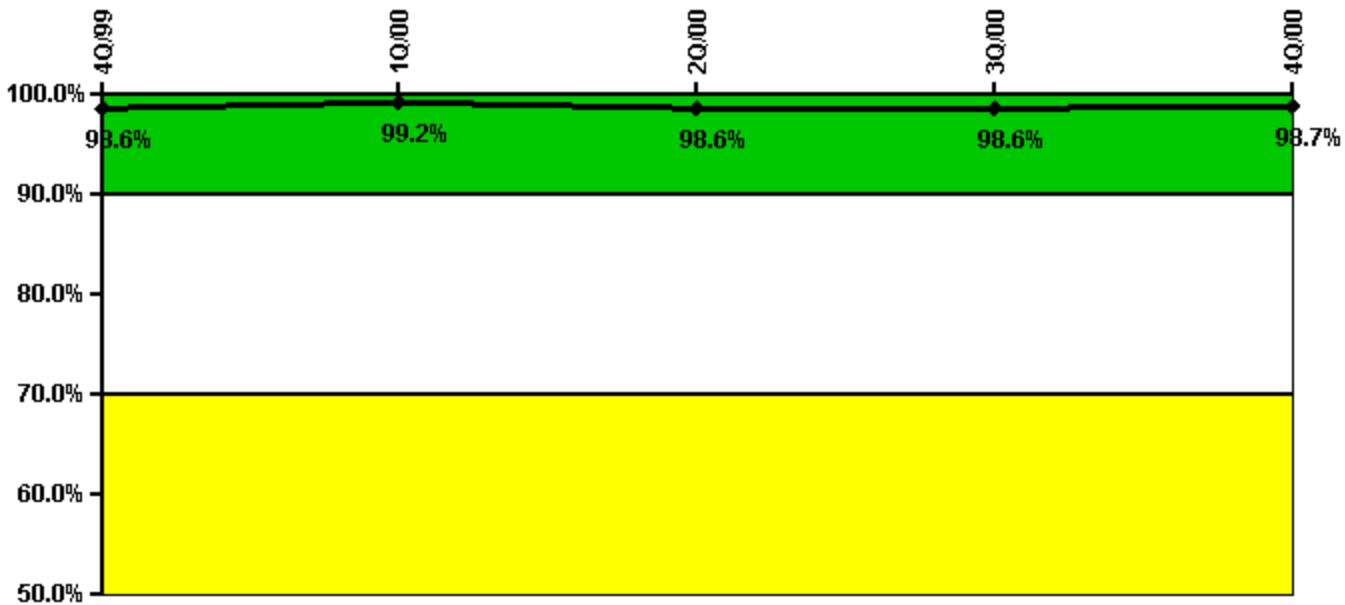
Thresholds: White > 50.0 Yellow > 100.0

Notes

| Reactor Coolant System Leakage | 1/00 | 2/00 | 3/00 | 4/00 | 5/00 | 6/00 | 7/00 | 8/00 | 9/00 | 10/00 | 11/00 | 12/00 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum leakage | 4.240 | 3.640 | 3.640 | 3.640 | 3.740 | 3.640 | 3.740 | 3.790 | 3.940 | 3.740 | 3.640 | 3.540 |
| Technical specification limit | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 |
| Indicator value | 17.0 | 14.6 | 14.6 | 14.6 | 15.0 | 14.6 | 15.0 | 15.2 | 15.8 | 15.0 | 14.6 | 14.2 |

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

| Drill/Exercise Performance | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|----------------------------|-------|-------|-------|-------|-------|
| Successful opportunities | 11.0 | 67.0 | 9.0 | 0 | 18.0 |
| Total opportunities | 11.0 | 67.0 | 10.0 | 0 | 18.0 |
| | | | | | |
| Indicator value | 98.6% | 99.2% | 98.6% | 98.6% | 98.7% |

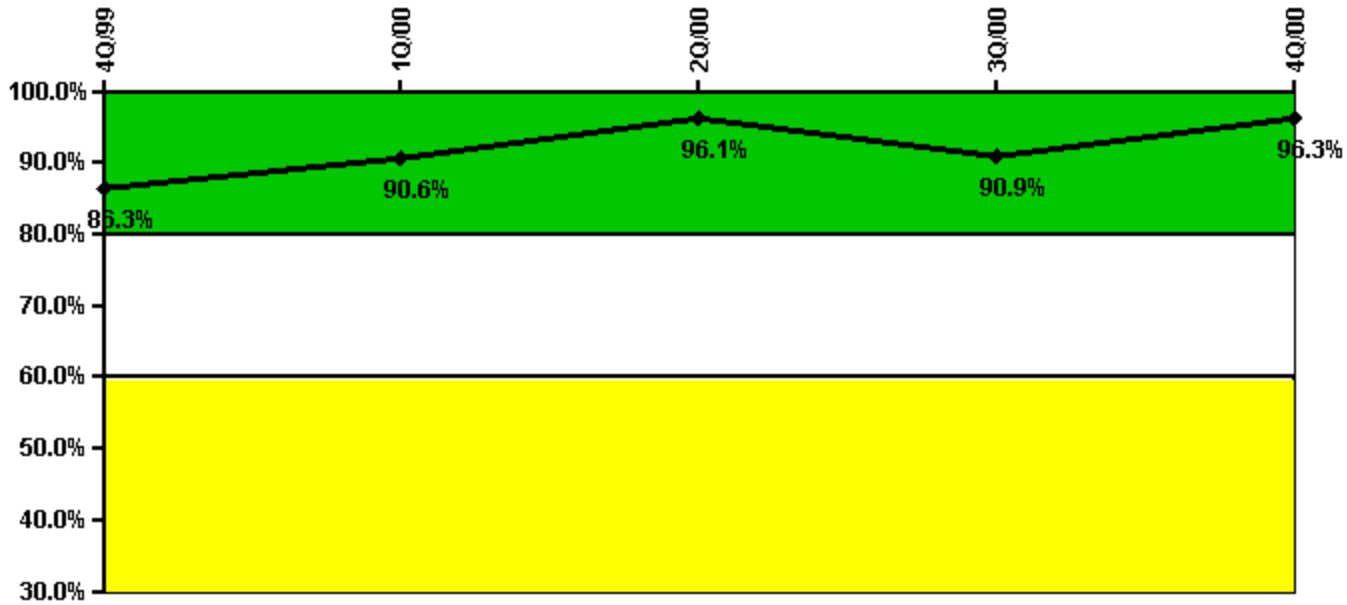
Licensee Comments:

4Q/00: A total of 6 opportunities were removed from the database for drills covering the period of 06/14/2000 to 2/15/2001 because they were determined to be invalid notification opportunities.TL..... Through Review of data for November drill it was discovered that there was one more opportunity and success for the Nov.15, 2000 drill, thus this data has been updated to reflect this math error. Thus, the PI number has been changed from 20 out of 20 to 21 out of 21. MNF.

4Q/00: Through Review of data for November drill it was discovered that there was one more opportunity and success for the Nov.15, 2000 drill, thus this data has been updated to reflect this math error. Thus, the PI number has been changed from 20 out of 20 to 21 out of 21. MNF.

2Q/00: A total of 6 opportunities were removed from the database for drills covering the period of 06/14/2000 to 2/15/2001 because they were determined to be invalid notification opportunities.TL

ERO Drill Participation



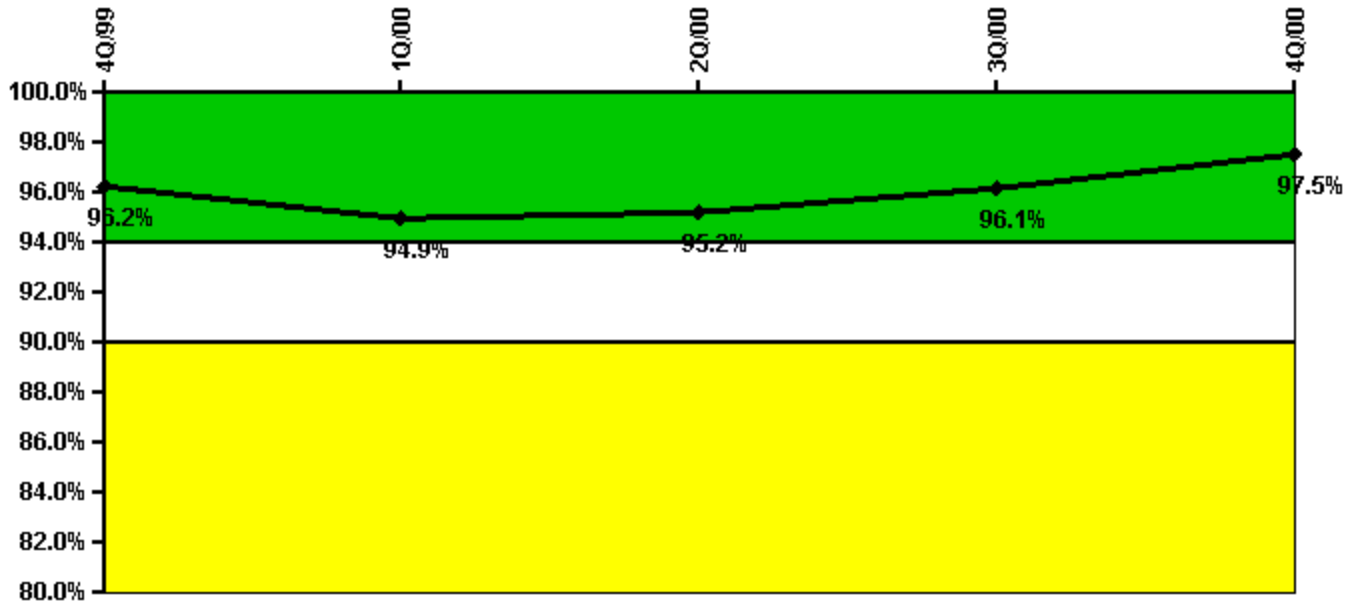
Thresholds: White < 80.0% Yellow < 60.0%

Notes

| ERO Drill Participation | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|-----------------------------|-------|-------|-------|-------|-------|
| Participating Key personnel | 44.0 | 48.0 | 49.0 | 50.0 | 52.0 |
| Total Key personnel | 51.0 | 53.0 | 51.0 | 55.0 | 54.0 |
| | | | | | |
| Indicator value | 86.3% | 90.6% | 96.1% | 90.9% | 96.3% |

Licensee Comments: none

Alert & Notification System



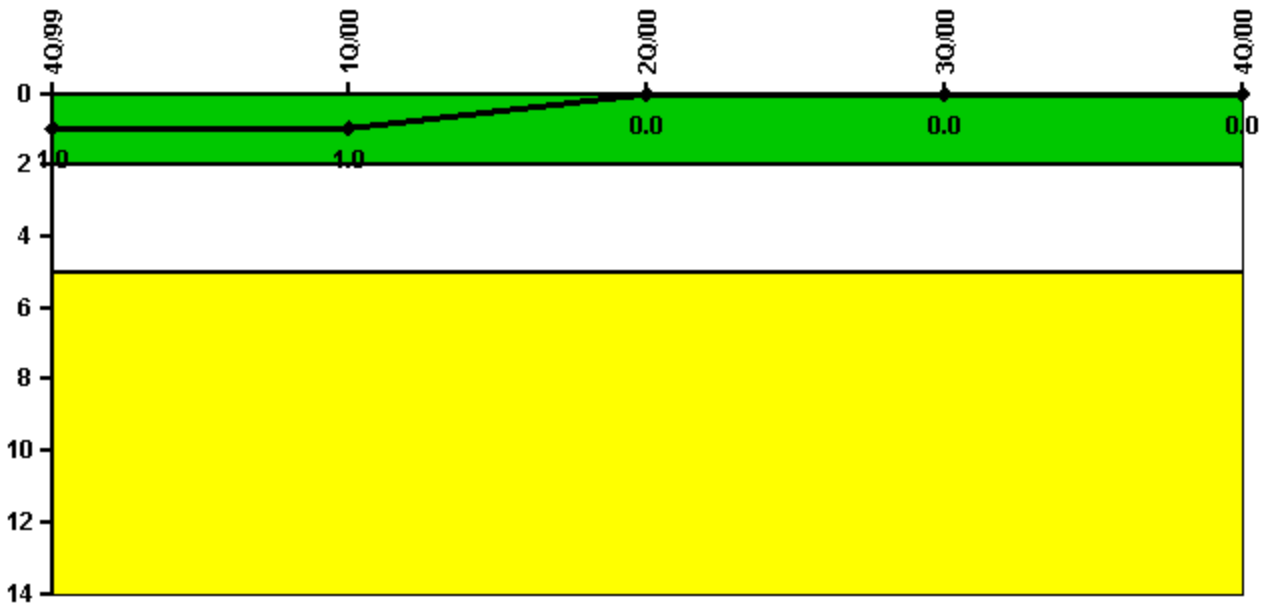
Thresholds: White < 94.0% Yellow < 90.0%

Notes

| Alert & Notification System | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|-----------------------------|-------|-------|-------|-------|-------|
| Successful siren-tests | 467 | 459 | 954 | 2561 | 4391 |
| Total sirens-tests | 495 | 495 | 990 | 2640 | 4455 |
| | | | | | |
| Indicator value | 96.2% | 94.9% | 95.2% | 96.1% | 97.5% |

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

| Occupational Exposure Control Effectiveness | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|---|----------|----------|----------|----------|----------|
| High radiation area occurrences | 0 | 0 | 0 | 0 | 0 |
| Very high radiation area occurrences | 0 | 0 | 0 | 0 | 0 |
| Unintended exposure occurrences | 0 | 0 | 0 | 0 | 0 |
| Indicator value | 1 | 1 | 0 | 0 | 0 |

Licensee Comments: none

RETS/ODCM Radiological Effluent



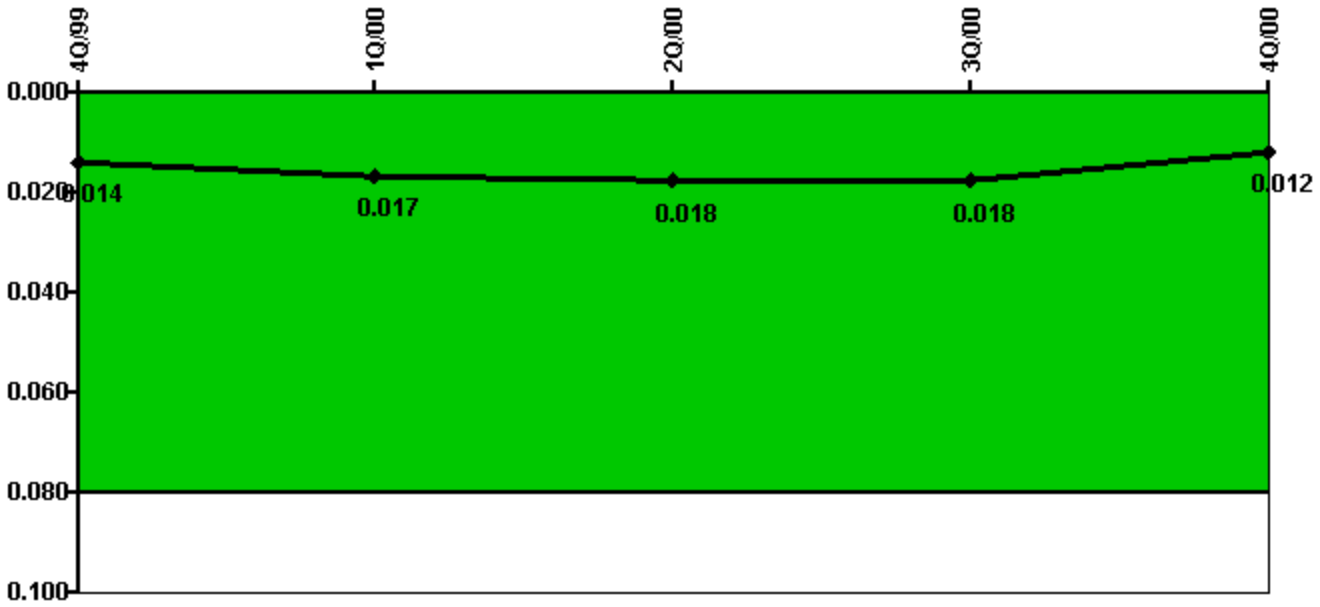
Thresholds: White > 1.0 Yellow > 3.0

Notes

| RETS/ODCM Radiological Effluent | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|---------------------------------|-------|-------|-------|-------|-------|
| RETS/ODCM occurrences | 0 | 0 | 0 | 0 | 0 |
| | | | | | |
| Indicator value | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

Protected Area Security Performance Index



Thresholds: White > 0.080

Notes

| Protected Area Security Performance Index | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|---|--------------|--------------|--------------|--------------|--------------|
| IDS compensatory hours | 357.70 | 143.40 | 63.20 | 29.50 | 81.70 |
| CCTV compensatory hours | 0 | 17.6 | 36.4 | 16.1 | 7.9 |
| IDS normalization factor | 2.35 | 2.35 | 2.35 | 2.35 | 2.35 |
| CCTV normalization factor | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| | | | | | |
| Index Value | 0.014 | 0.017 | 0.018 | 0.018 | 0.012 |

Licensee Comments: none

Personnel Screening Program



Thresholds: White > 2.0 Yellow > 5.0

Notes

| Personnel Screening Program | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|-----------------------------|-------|-------|-------|-------|-------|
| Program failures | 0 | 0 | 0 | 0 | 0 |
| | | | | | |
| Indicator value | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

| FFD/Personnel Reliability | 4Q/99 | 1Q/00 | 2Q/00 | 3Q/00 | 4Q/00 |
|---------------------------|-------|-------|-------|-------|-------|
| Program Failures | 0 | 0 | 0 | 0 | 0 |
| | | | | | |
| Indicator value | 0 | 0 | 0 | 0 | 0 |

Licensee Comments: none

▲ [PI Summary](#) | [Inspection Findings Summary](#) | [Action Matrix Summary](#) | [Reactor Oversight Process](#)

Last Modified: March 28, 2002